



CONSTRUCTION EQUIPMENT

SW-25337-2 CLAWSON VOLVO A45G 352577 - DIESEL ENGINE



Sample No: VCP442162
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-25337-2 CLAWSON



SAMPLE INFORMATION

Sample Number	VCP442162	VCP360534	VCP283930	VCP342426
Sample Date	13 Oct 2023	07 Jul 2022	05 Apr 2022	28 Oct 2021
Machine Hours	4103	2827	2320	1704
Oil Hours	400	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ARNOLD MACHINERY COMPANY
 2975 WEST 2100 SOUTH
 SALT LAKE CITY, UT
 US 84119
 Contact: TONY PAYAN
 tpayan@arnoldmachinery.com
 T: (801)972-4000
 F: (801)975-9434



OIL CONDITION

Visc @ 100°C	cSt	13.6	13.1	13.1	13.4
Base Number (BN)	mg KOH/g	7.0	9.1	8.9	---
Oxidation (PA)	%	60	67	64	61

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	0.3	0.6	0.6	0.5
Nitration (PA)	%	74	81	83	73
Sulfation (PA)	%	53	60	60	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	8	5
Sodium	ppm	2	<1	2	2
Potassium	ppm	4	2	1	0



WEAR METALS

Iron	ppm	8	16	15	15
Copper	ppm	13	4	3	3
Lead	ppm	1	2	1	2
Tin	ppm	<1	1	1	2
Aluminum	ppm	3	2	1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	66	58	47	51
Nickel	ppm	1	2	2	<1
Titanium	ppm	1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2058	1341	1338	1229
Magnesium	ppm	218	816	966	882
Zinc	ppm	1311	1238	1341	1166
Phosphorus	ppm	1069	1022	1091	997
Barium	ppm	0	0	0	0
Boron	ppm	80	16	23	13

Depot: VOLVO8770
Unique No: 10702591
Signed: Wes Davis
Report Date: 23 Oct 2023



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GRAPHS

